WR-35 Rev (5-01) DATE: October 30, 2006
API # 047 - 015 - 02549F

State of West Virginia Department of Environmental Protection Office of Oil and Gas

Well Operator's Report of Well Work

Farm Name	e:	Paul B	Barringer II, et	al	O _I	pera	tor W	ell No.	PM	OG 5
LOCATIO	N: Elevation:		1400		Qı	uadı	rangle:		Swanda	ıle
	District:		Buffalo		Co	ount	ty:		Clay	
	Latitude:	4475	Feet South of	38	Deg. 3	0	Min.	00	Sec.	
	Longitude:	13950	Feet West of	80	Deg5:	5	Min	00	Sec.	
Company			Pine Mtn., Inc	_	Casing & Tubing		Used drilli		Left in well	Cement fill up Cu. Ft.
Address:	P.O. Box			_	11 3/4			14		
AA -	Abingdo			-	8 %			32	532	CTS
Agent:	Geary Lo			-	4 ½		22	279	2279	310 sx
Inspector	: <u>Terry Ur</u> nit Issued:	Dan	9/6/05	-	2 3/8	\dashv			2188	
	Work Comm	enced:	5/2/06	-		\dashv				
	Work Comp		5/08/06	-		\dashv				
Verbal Pl	•			-			RE	CEI	/ED	
Date Pern	nission grante	d on:		-	(Of			& Gas	
	X Cable	Rig							3 Gas	
Total De			2369	_			ΔΗ	622	2012	
Fresh Wa	ter Depth (ft.)): <u>40,</u>	135	-		\dashv	70		2013	
Call Water	r Depth (ft.):	710	1016	-	· · · · · · · · · · · · · · · · · · ·	\mathbf{A}	7 554			
Sait Wate	r Depth (tt.):		, 1216	-					nent of	
Is coal he	ng mined in a	rea (N/Y)? N	-	- Env	Irq	nme	ental	Protection	1
	ths (ft.): 7			-		_				
_				-						I
	LOW DATA									
	ducing Format		Big L			_	-	e depth		_ (ft)
Gas	: Initial oper		MCF/d	C	oil: Initial o	-			_ Bbl/d	
	Final open		146 MCF/d		Final o	-		-	Bbl/d	
_			between initia					_ Hou	rs	
Sta	tic Rock Pres	sure _	140 Psig (st	ırfac	e pressure)	afi	ter _	24	Hours	
Sec	ond Producing	Formatio	on:			P	ay zon	e depth	(ft))
Gas	: Initial oper	n flow:	MCF/d	<u> </u>	il: Initial o	_	•	-	Bbl/d	•
	Final open	flow:	MCF/d		Final o	- pen	flow:		Bbl/d	
	Time of o	pen flow	between initia	l an				Hou	_	
Sta	tic Rock Pres				e pressure)		er	_	Hours	
P E	ERFORATED TC. 2) THE OF ALL FORM	INTER WELL LO LATIONS	CK OF THIS VALS, FRACT OG, WHICH IS S, INCLUDING RESOURCE OF STATE	URI A SY COA	NG OR ST YSTEMATIO	TIM C D ITE	ULAT ETAII RED I	ING, P LED GE BY THE	HYSICAL CH OLOGICAL RE WELLBORE.	ANGE.

Formation	Top Feet*	Bottom Feet*
Sand and Shale	0	1460
Upper Maxon	1460	1512
Shale	1512	1673
Middle Maxon	1673	1734
Shale	1734	1834
Lower Maxon	1834	1871
Shale	1871	1924
Little Lime	1924	1963
Shale	1963	1972
Blue Monday	1972	2010
Pencil Cave	2010	2024
Big Lime	2024	2229
Shale	2229	2369

RECEIVED Office of Oil 3 Gas

AUG 2 2 2013

WV Department of Environments Protection

15.02549F

Permit

47-015-02549F

	Stage 1	Stage 2
Date	5/4/2006	5/4/2006
Frac	75Q N2 Foam	75Q N2 Foam
Formation(s)	Big Lime	Big Lime
Interval	2177-2185	2076-2093
# of Perf	18	9
BD Press	2275 psi	2687 psi
Avg Treating Press	2807 psi	4021 psi
Max Treating Press	3108 psi	4106 psi
Avg Rate (dh)	19.5 bpm	11.6 bpm
ISIP	531 psi	2115 psi
5 min SIP	426 psi	1918 psi
Total Acid	500 gal	500 gal
Total N2	157800 scf	341200 scf
Total H2O	138 bbl	195 bbl
Total Sand	394 sk	259 sk

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AUG 2 2 2013

WV Department of Environmental Protection WR-35 Rev (5-01) DATE: December 10, 2010
API # 047 - 015 - 2588R

State of West Virginia Department of Environmental Protection Office of Oil and Gas

Well Operator's Report of Well Work

Farm Name		Paul B	B. Barringer, II T	rust		Opera	ator Wel	ll No.	PMC	OG 14
LOCATIO	N: Elevation	:	1395.15	5		Quad	lrangle:		Swanda	le
	District:		Buffalo			Cour	ıty:		Clay	
	Latitude:	6875	Feet South of		Deg		Min.			
			Feet West of				_			
Company			-Pine Mtn. Inc.		Casing Tubing		Used i		Left in well	Cement fill up Cu. Ft.
Address:	P.O. Bo				113/		12			
			nia 24212		85/4		44	3	443	125 sx
Agent:		Legg			41/2		<u> </u>		2081	180 sx
Inspector:		•			21/2		<u> </u>		2040	
Date Pern				_						
	Work Com							· · · · · · · · · · · · · · · · · · ·		
	Work Com	pietea:	Dec 1, 200	<u>'</u>	ļ					
Verbal Plu	ugging: nission gran	tod on:					R	ECE	IVED	
	X Cable			_			Office	e of	Oil & Gas	
Total Dep		- "	2307 kb					<u> </u>		
_	ter Depth (f	t.): 50	kb	_			 	uig 9	2 2013	
	op (.	,· <u></u>	- 11				 	100-6		
Salt Water	r Depth (ft.)	: 17	740 kb						-tmont O	
	• ` `						WV	Dep	artment o	tion
Is coal bei	ng mined in	area (N/	Y)? N			Er	viror	mer	ital Protec	tioi i
Coal Dept	hs (ft.):									
	LOW DATA	_	.	• •			_		2227 227	(0)
	ducing Form	_					Pay zone	_		_ (ft)
Gas	: Initial op		MCF		Oil: Init	_			Bbl/d	
	Final ope		N/A MCF			•	n flow:		Bbl/d	
		-	w between ini						rs	•
Sta	tic Rock Pr	essure	220 Psig	(surfa	ce pressu	ıre) a:	fter	12	Hours	
Sec	ond Produci:	ng Forma	tion:			1	Pay zone	e depth		(ft)
Gas	: Initial op	en flow:	MCF	/d (Oil: Init	ial ope	en flow:		Bbl/d	
	Final ope	en flow:	MCF	/d	Fina	al ope	n flow:		Bbl/d	
	Time of	open flo	w between ini	tial ar	d final te	ests		Hou	urs	
Sta	tic Rock Pr	essure	Psig	(surfa	ce pressu	re) a	fter	-	Hours	
P E	ERFORATION OF THE	ED INTE	RVALS, FRA	CTUR IS A S	ING OR YSTEMA	STIN TIC 1	MULAT: DETAIL	ING, I .ED GE	IG: 1) DETAI PHYSICAL CH OLOGICAL RI WELLBORE.	ANGE,
		Signe								
		В	y. Dame	47	Zun	\bigcirc				
		Dat	te: 8/22/	13	•					

Completion Data

Well Log

Formation	Top (ft)*	Bottom (ft)*
Sand and Shale	0	1269
Salt Sand	1269	1314
Shale	1314	1382
Salt Sand	1382	1422
Shale	1422	1506
Upper Maxon	1506	1547
Shale	1547	1694
Middle Maxon	1694	1748
Sand and Shale	1748	1932
Little Lime	1932	1976
Shale	1976	1982
Blue Monday	1982	2010
Shale	2010	2028
Big Lime	2028	2229
Shale	2229	2307
TD	2307	

^{*} Depths 10 ft KB

Well

PMOG 14

Permit

47-015-02588R

Stage 1

Date Frac 1/11/2008 75Q N2 Foam Acid

Formation(s)

Big Lime

Interval

2225-2079kb

of Perf

Open Hole

BD Press

700 psi

Avg Treating

Press

991 psi

Max Treating

Press 1398 psi
Avg Rate (dh) 7 bpm
ISIP psi
5 min SIP psi

Total Acid 2000/15%HCl gal
Total N2 14,000 scf
Total H2O bbl
Total Sand sx

Note: Drill out 4½ casing shoe, complete Big Lime open hole Note: Unable to release 4½ x 2% packer (sanded in at 2040 ft) WR-35 Rev (9-11)

State of West Virginia Department of Environmental Protection Office of Oil and Gas Well Operator's Report of Well Work

	, <u> </u>
DATE:	August 7, 2013
API#:	47-5101571

ATION: Elevation: 1226.69		II No.: MND9DI		
				
District: Franklin	County: Mar			
		n. 00 Se n. 00 Se		
Dongitudo	,g	1	c.	
Company: Noble Energy, Inc.				
Address: 333 Technology Drive, Suite 116	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Canonsburg, PA 15317				
Agent: Steven Green	20"	40'	40'	cts
Inspector: Bill Hendershot	13 3/8	1208.1	1208.1	cts
Date Permit Issued: 10/31/2012			1	
Date Well Work Commenced: 6/28/20/3				
Date Well Work Completed: 7/4/20/3				
Verbal Plugging:				-
Date Permission granted on: 7/25/2013				<u> </u>
Rotary Cable Rig			RFO	EIVED
Total Vertical Depth (ft): 1228			Office o	Oil & Ga
Total Measured Depth (ft): 1228				
Fresh Water Depth (ft.):		 	AUG	28 2013
		 	 	
Salt Water Depth (ft.):			 WV D e	partment (
Is coal being mined in area (N/Y)?			Environm ∈	ntal Prote
Coal Depths (ft.):				
Void(s) encountered (N/Y) Depth(s)		<u> </u>		
EN FLOW DATA (If more than two producing forms	itions please inclu	ude additional d	ata on separate sl	heet)
	y zone depth (ft)			
Gas: Initial open flowMCF/d Oil: Initial oper Final open flowMCF/d Final open flow		bl/d bl/d		
Time of open flow between initial and final tests				
Static rock Pressurepsig (surface pressure)				
Second producing formationPay	mana dansh (A)			
Gas: Initial open flowMCF/d Oil: Initial open				
Final open flow MCF/d Final open fl				
Time of open flow between initial and final tests_				
Static rock Pressurepsig (surface pressure)	afterHou	ırs		
fy under penalty of law that I have personally examine	d and am familia	r with the infor	mation submitted	on this documen
attachments and that, based on my inquiry of those in				
e information is true, accurate, and complete.			,	

Were core samples taken? Yes	No	Were cuttings caught during of	irilling? Yes	No
Were Electrical, Mechanical or Geophy.	sical logs recorded on this v	vell? If yes, please list		
NOTE: IN THE AREA BELOW FRACTURING OR STIMULATING DETAILED GEOLOGICAL RECO COAL ENCOUNTERED BY THE V	G, PHYSICAL CHANGE, DRD OF THE TOPS A	ETC. 2). THE WELL LOG ND BOTTOMS OF ALL F	WHICH IS A SY	YSTEMATIC
Perforated Intervals, Fracturing, or Stim	ulating:			
NA -Plug Well Bore				
				
Plug Back Details Including Plug Type	and Depth(s): Set Plug #1	- 530' Released Compat Di	ua @1070' 540'	(04.7.Bh/s)
FOOH to 500' at 30'/min then circulate w			ug @ 1079 -540 .	(91.7 BDIS)
		- Control Continuation		
Formations Encountered: Surface:	Top Depth	/	Bottom [<u>Depth</u>
**Plug Back Details Continu	ed:	·		
Set Plug #2 (91.8 bbls) Balanced Cem				
OOH @ 30'/min. Top off as needed Ci				
Cut depth for casing cap 3-4 feet below of	round level and install aba	ndonment cap. Cement Cellar	to be even with gr	round level.
			RECI	EIVED
			Office of	Oil & Gas
			AUG 2	28 913
			WV Dep	artment of
			Environmer	Ha Protecti
				
				

DATE: May 12,2006 API#: 47-99-02185

State of West Virginia Department of Environmental Protection Office of Oil and Gas

Well Operat	or's Report of	f Well Work				
Farm name: WILLIS ADKINS		Operator Well No.:				
LOCATION: Elevation: 638.5		uadrangle:				
District: STONE WALL		ounty: WAYN				
Feet South of	Deg.	Min.	Sec.			
Longitude Feet West of	Deg	Min.	Sec.		•	
Company: MYFRS DRILLING Co.						
	Casing &	Used in	Left in well	Cement fill		
Address: P. C. S.	Tubing	drilling	,	up Cu. Ft.		
Address: P.O. Box 328	10%	27'	27'	165.5		
1-AST KYNN WU 25512	8%"	452.5'		COMENT TO S	oe FART	
Agent: Michael Davis	71	15001		CON COMMENT	15050	
Inspector: GARY SOITES	45	3041.10		400 70 37	m 1500	
Date Permit Issued: 9-12-05	23/0"	3046	3046'	CEMENT UP	- 2100	
Date Well Work Commenced: 10-6-05		2010	30/6	Have in u	15LL	
Date Well Work Completed: 3 - 22 - 1/2			<u> </u>	NO PANE	e Used	
verbai Plugging:						
Date Permission granted on:			ļ			
Rotary Cable X Rig X		+	<u> </u>			
Total Depth (feet): 3080		+			•	
Fresh Water Depth (ft.): 30'					•	
		-	RECEIV	ED		
Salt Water Depth (ft.): 800		O	ffice of Oil	& Gas		
Is coal being mined in area (N/Y)? / N			AUG 222	013		
Coal Depths (ft.): No Ne			1100 D D	010		
7						
OPEN FLOW DATA		Envir	V Departn onmental F	Protection		
Producing formation FUONIAN SHA Gas: Initial open flow SHOW MCF/d Oil I	d/ = 5					
Gas: Initial open flow 5/600 MCF/d Oil: In Final open flow 12.62 MCF/d Oil: In	Pay 2	one depth (ft) <u>2</u>	825 - 3010	•		
Final open flow 12 a MCP/d Oil: It	nitial open f	low None Bl	ol/d			
			l/d		•	
Or Open 110W Deliveen initial and the	101 **. **	//				
static rock Pressure 225 psig (surface	pressure) af	ter 24 Hour	'S			
Second producing formation Gas: Initial open flow MCF/d Oil In	*>					
Gas: Initial open flow MCF/d Oil: In	Pay zon	ie depth (ft)			•	
Final open flow MCF/d Oil: In	itial open fl	owBb	1/d			
			/d			
" " " " " " " " " " " " " " " " " " "	0 +0040					
	nessure) are	erHours				
NOTE: ON BACK OF THIS FORM PUT THE FOI INTERVALS, FRACTURING OR STIMULATING	LLOurs					
INTERVALS, FRACTURING OR STIMULATING, LOG WHICH IS A SYSTEMATIC DETAILED OF	LLUWING: I). DETAILS OF	PERFORATED)		
LOG WHICH IS A SYSTEMATIC DETAILED OF	PHYSICAL	CHANGE, ETC	. 2). THE WEL	L		
LOG WHICH IS A SYSTEMATIC DETAILED GE INCLUDING COAL ENCOUNTERED BY THE WE	LLBORE.	RECORD OF A	LL FORMATIC	NS,		
Signed: Mucha Com						
Bu 121's						

EDETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

PERFORATED 24 HOLES - 2625' - 2441'
NITROGEN FRAC USE 1,5000.000 CU FT. GAS

WELL LOG

BIOKEN SAND GRAY SLATIC GRAY SLATIC GRAY X 30 125 SAND #SLATE GRAY X 125 780 F Run 452 88" (1881) (25) SAND #SLATE GRAY X 125 780 F Run 452 88" (1881) (25) SLATE BLACK X 1075 1180 LITTLE LIME BLACK X 1075 1180 LITTLE GRAY X 2000 2020 LITTLE GRAY X 2031 2085 SLATE GRAY X 2031 2085 SLATE GRAY X 2051 2085		·						
Surkin Sand GRAY Sharing GRAY	FURNATION .	COLOR	HARD	OR	SOFT	TOP FRET	BOITOM FEE	Including indication of all f
SLATE GRAY SAND TSLATE GRAY X 125 780 ← Run 152-88" (ABING CAME) SAND TSLATE GRAY X 125 780 ← Run 152-88" (ABING CAME) SANT SAND WHITE X 780 1075 ← SALT WATER B35. SALTE BLOCK X 1075 1/80 SALTE GRAY X 1200 1375 SLATE GRAY X 1375 1/404 SALTE GRAY X 1406 2000 ← CEMENT 1500' of 7'() SALTE SHALL GRAY X 2020 2021 SALTE SHALL GRAY X 2020 2021 SALTE GRAW X 2031 2085 SLATE GRAW X 2157 2560 SHALE GRAW X 2157 2560 SHALE GRAW X 2125 2720 SHALE GRAW X 2125 2720 SHALE GRAW X 2125 3088 ← Stop DICLLI/NG 3088 SLATE TRANS SALE SLATE SL	SURFACE	BROWN			X	0	12	
SLATE GRAY SAND TSLATE BRAY X 125 780 F- Run 452'-E8" (AKING CAME) SAND TSLATE BRAY X 126 1075 - SALT WATER B25' SLATE BLACK X 1075 1180 SLATE GRAY X 1200 1375 SLATE GRAY X 1200 1375 SLATE GRAY X 1200 1375 SLATE GRAY X 1404 X 1404 X 1400 2000 X 140	Broken SAND	GRAY			X	12	30	EFRESH WATER
SAND + SLATE BRAY SHITSAND WHITE SHITSAND WHITE TEO 1075 TEO 1075 SHOR SHITSAND WHITE TEO 1075 THEO SHITSAND WHITE THEO 1275 THEO SHITSAND WHITE SHOR SHIT SHOR	SLATE	GRAY			X		125	
SLATE BLACK X 1180 1200 SLATE BLACK X 1180 1200 SLATE GRAY X 1375 1404 SLATE GRAY X 1375 1404 SLATE GRAY X 1486 2000 CEMENT 500' of 7(n SLATE SHALLS GRAY X 2000 2020 SLATE SHALLS GRAY X 2031 2085 SLATE SHALLS GRAY X 2031 2085 SLATE GRAY X 2031 2085 SLATE GRAY X 2051 2560 SLATE GRAY X 2625 2725 CEMENT 306' - 45 TRADAUT SLATE GRAY X 2625 2720 2504 SLATE GRAY X 2625 2704 SLATE LANGE GRAY X 2625 SLATE LANGE	SAND 45LATE				X	125	780	F Run 452 - 8% (ASING COM
BIG LIME WONTE X 1200 1375 SLATE GRAY TUTUN SHIP TUTUN SHIP TUTUN SHIP SLATE SHIP S	SALTSAND	WHITE			X		1075	F. SALT WATER 825'
BIG LIME WOLLTE X 1,187	SLATE			<u> </u>	X		1180	32,0
SLATE GRAY SLATE SHALL BARY LUXUNSAND GRAY METERSHALL BARY METERSHALL		BIACK	X	 			1200	
INDINISAND CRAY MATCH SHELLORAY MATCH		WHITE	X	-	-	1200		
SLATE SHALL GRAY X 2000 2020 BERRA SHALL DARK B. X 2000 2020 BERRA SHALL GRAY X 2031 2023 SLATE ORRY X 2157 SLATE ORRY X 2157 SLATE GRAY X 2625 2720 SHALE GRAY X 2625 2720 SLATE GRAY X 3048 5 MANG 3046 4 336" TL.B.I.O.C. SLATE GRAY 3048 3080 5 5top DICLULING 3080	JAH / R	GRAF	 	┼─	 	13 73		
BIRTE A SHAD SRAY X 2020 2037 SLATE SHALLS GRAY X 2031 2085 SLATE SRAWN X 2085 2157 SLATE GROWN X 2560 2.625 - CEMENT 306) - 4½ PRODUCTS SLATE GRAY X 2625 2720 SHALE BROWN X 2720 3048 - MANG 3046 2 3¾ TLBING SLATE GRAY 3048 3080 - Stop DICLULING 3081 SLATE GRAY 3048 3080 - Stop DICLULING 3081	LUNCHINALUS SIATEASURII	GRAV		 	\	1485		- CEMENT BOO! OF The
BISER & SHAP S RAY SLATIC SHAPLE BROWN X 2031 2025 SLATIC ORRY SLAT	シェドド ドラくりれんし	DARK B			X	2000		7,000
S. HINE SROWN X 2055 2.187 S. HINE CRRY X 2.157 2.560 S. HINE CRRY X 2.560 2.625 C. F. M. ENT 3061 - 42 42 42 S. HINE CRRY X 2.625 2.72 2.72 2.72 S. HALE CRRY X 2.72 3.048 - HANG 3.046 4.23 74.81 1.81 S. HALE CRRY X 3.048 3.080 - Stop D. C. L. L. J. N. G 3.082 S. HALE CRRY 3.048 3.080 - Stop D. C. L. L. J. N. G 3.082 S. HALE CRRY X 3.048 3.080 - Stop D. C. L. L. J. N. G 3.082 S. HALE CRRY X 3.048 3.080 - Stop D. C. L. L. J. N. G 3.082 S. HALE CRRY X 3.048 3.080 - Stop D. C. L. L. J. N. G 3.082 S. HALE CRRY X 3.048 3.080 - Stop D. C. L. L. J. N. G 3.082 S. HALE C. HALE	BIERRA SAND	GRAY				2020	2031	
SLATIC ORRY SHALE - BROWN X 2540 2425 = CEMENT 306) - 42 TRADUCTOR SLATE GRAY X 2625 2720 SHALE BROWN X 2720 3048 - HANG 3046 4 23 TUBINE SLATIC GRAY 3048 3080 - Stop DICLLLING - 3080	SLATE SHALL	5 GRAY			X			1
SHALE GRAY X 2625 2720 SHALE BROWN X 2720 3048 - HANG 3046 4 38 76 3080 SLATIE GRAY X 3048 3080 - 5top DICLULING 3080			*	-				
SLATE GRAY X 2625 2720 SHALE GROWN X 2720 3048 C HANG 3046 A 33 TUBLE 3080 SLATE GRAY 3048 3080 C STOP DICLULING 3080	SLATIC	ORAY	<u> </u>	├	 			1 20/) - CH +20 DUCT
				<u> </u>				CEMENT SUGT - 72 TRUST
					X			1405 20 H/2 at 33 74 BIND
				L	X	2720	13048 5	7 1/100 3010
	SLATE	3RAY		L		3048	13080	STOP DICLELING
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WR-35 Rev (9-11)

State of West Virginia Department of Environmental Protection Office of Oil and Gas Well Operator's Report of Well Work

DATE:	October 24, 2006
API #:	103-02182

Farm name: Coastal Lumber	Operator We	ell No.: Broome 2	RECEIVED		
OCATION: Elevation: 1128'	Quadrangle:	Folsom	ffice of Oil and G		
District: Grant	County: Wet	zel			
Latitude: Feet South of De	eg. Mi	n. Se		AUG 2 2 2013	
Longitude Feet West of D	egMi	nSe		V 0	
Company: Marshall Gas and Oil			Enviro	V Deparment Inmental Prore	
Address: PO Box 381087	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.	
Birmingham, AL 35238	85/8	1128'	1128'	CTS	
Agent: Scott Wilson	41/2	3200'	3175'		
Inspector: Mike Underwood					
Date Permit Issued: 6/19/2006					
Date Well Work Commenced: 7/15/2006					
Date Well Work Completed: 8/6/2006					
Verbal Plugging:					
Date Permission granted on:					
Rotary Cable Rig					
Total Vertical Depth (ft): 3200'					
Total Measured Depth (ft): 3175'					
Fresh Water Depth (ft.): 50'					
Salt Water Depth (ft.): 1300'					
Is coal being mined in area (N/Y)? N					
Coal Depths (ft.): n/a					
Void(s) encountered (N/Y) Depth(s) n/a					
Producing formation Fifth & Gordon Pa Gas: Initial open flow 200 MCF/d Oil: Initial open Final open flow MCF/d Final open flow open flow between initial and final tests Static rock Pressure 400 psig (surface pressure)	ay zone depth (ft) n flowE lowBHour	2915-2975 Bbl/d bl/d s	lata on separate s	heet)	
Second producing formation Big Injun / 30 ft Pay	zone depth (ft) 21	96-2854			
Gas: Initial open flow 200 MCF/d Oil: Initial open		Bbl/d			
Final open flow MCF/d Final open f Time of open flow between initial and final tests		bl/d			
Static rock Pressure 400 psig (surface pressure)					
certify under penalty of law that I have personally examine I the attachments and that, based on my inquiry of those in	ed and am familia	r with the infor	mation submitted	I on this document and he information I belie	
at the information is true, accurate, and complete	l		1 6/10/12		

Were core samples taken? YesNo_X	Were cuttings caught during drilling? YesNo_X
Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list	
FRACTURING OR STIMULATING, PHYSICAL CHA	LOWING: 1). DETAILS OF PERFORATED INTERVALS, ANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC PS AND BOTTOMS OF ALL FORMATIONS, INCLUDING I SURFACE TO TOTAL DEPTH.
Perforated Intervals, Fracturing, or Stimulating:	RECEIVED
Fifth & Gordon: Perfs: 13 holes 2924.00 to 2968.5	Office of Oil and Gas
Injun & 30 ft: Perfs: 14 holes 2200 to 2900	AUG 2 2 2013
	WV Department of
	Environmental Pro-ection
Plug Back Details Including Plug Type and Depth(s): n/a	
Formations Encountered: Top Surface:	Depth / Bottom Depth
Fifth: 2960' - 2975'	
Gordon: 2884' - 2943	
30 ft: 2839-2854	
Big Injun: 2196-2251	
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